



# DOCUMENTATION OF DUE CARE COMPLIANCE

14534 Woodward Avenue, Highland Park, Michigan

**PREPARED FOR** Tetra Tech, Inc.  
1 South Wacker Drive, 37th Floor  
Chicago, Illinois 60606

Woodward Avenue Action Association  
30947 Woodward Avenue  
Royal Oak, Michigan 48073

and

U.S. EPA Region 5  
77 West Jackson Blvd  
Chicago, Illinois 60604

**PROJECT #** 3010f2-1-20

**DATE** January 8, 2015

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# DOCUMENTATION OF DUE CARE COMPLIANCE

14534 Woodward Avenue, Highland Park, Michigan

AKT Peerless Project No. 3010F2-1-20

## 1.0 Introduction

On behalf of Tetra Tech, Inc., U.S. EPA Region 5, and Woodward Avenue Action Association, AKT Peerless was retained to prepare this Documentation of Due Care Compliance (DDCC) for the property located at 14534 Woodward Avenue in Highland Park, Wayne County, Michigan (subject property). AKT Peerless' scope-of-services is based on its proposal PF-16449-1, and the terms and conditions of that agreement. Refer to **Figure 1** for a Topographic Site Location Map and **Appendix A** for a copy of the subject property's legal description.

The DDCC has been prepared in accordance with Section 20107a of the Natural Resources and Environmental Protection Act (NREPA), Public Act 451 of 1994, as amended.

To demonstrate compliance with Section 20107a(1), exacerbation, due-care, and reasonable precautions have been considered and evaluated. Pursuant to Section 20107a(1) and with respect to hazardous substances at the subject property, these considerations are as follows:

- Undertake measures as are necessary to prevent exacerbation of existing contamination;
- Exercise due care by undertaking response activities necessary to mitigate unacceptable exposure to hazardous substances and allow for the intended use of the facility in a manner that protects the public health and safety;
- Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions;
- Provide notifications to the Michigan Department of Environmental Quality (MDEQ) and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable;
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility; and
- Not impede the effectiveness or integrity of any land use or resource restriction employed at the facility in connection with response activities.

Based on information contained in a Phase I Environmental Site Assessment Update Report (Phase I ESA Update) prepared by ASTI Environmental (dated February 24, 2014) the subject property is currently improved with two contiguous buildings. One building is a four story administrative/office building and the other is a one story garage. The remainder of the site comprises asphalt/concrete, paved parking areas and grassy/landscaped surfaces.

According to a Baseline Environmental Assessment (BEA) also prepared by ASTI Environmental (dated March 19, 2014, the intended use of the property "will include the renovation of the building for office space and as an interpretive center".

According to the BEA, the current owner of the Subject Property is:

**Woodward Avenue H.P.F.B., LLC, Woodward Avenue Action Association and County of Wayne.**

This Documentation of Due Care Compliance is based on the proposed continued use of the subject property that is consistent with the zoning (Commercial Office Building). If, in the future, the use of the property changes, this DDCC must be re-evaluated and revised as appropriate in consideration of those changes. Refer to **Figure 2** for a Subject Property Map.

## **2.0 Detailed Characteristics of Property Use**

### **2.1 Physical Setting**

Based on information contained in the February 24, 2014 Phase I ESA Update prepared by ASTI, the subject property is located at 14534 Woodward Avenue in Highland Park, Michigan, and comprises one parcel (Parcel Identification Number 43-002-04-0001-324) consisting of approximately 2.59 acres of land. The subject property is currently zoned Commercial Office Building. The subject property is located in Highland Park, (Township 1 South / Range 11 East), Wayne County, Michigan. The subject property is located on the east side of Woodward Avenue.

### **2.2 Current Use and Proposed Use of the Subject Property**

The subject property is currently vacant. According to the March 19, 2014 BEA, the intended use of the property "will include the renovation of the building for office space and as an interpretive center".

### **2.3 Existing Infrastructure Features**

The subject property is currently serviced by municipal utilities including water, sewer, franchise gas, electricity, and telephone. Refer to **Appendix A** for a copy of the subject property's legal description.

### **2.4 Proposed Construction Activities**

At this time, AKT Peerless has not been informed of any specific proposed construction activities.

## **3.0 Hazardous Substance Information**

The following subsections provide a summary of previous environmental investigations, areas of known contamination, an evaluation of exposure pathways, and an evaluation of potentially imminent risks at the subject property.

### **3.1 Previous Environmental Investigations**

#### **3.1.1 Baseline Environmental Assessment prepared by ASTI Environmental, (dated March 19, 2014)**

ASTI was retained by Woodward Avenue H.P.F.B., LLC and Woodward Avenue Action Association to prepare a Baseline Environmental Assessment (BEA) for 14534 Woodward Avenue in Highland Park, Wayne County, Michigan (Property). The Property is also known as 15000 Woodward Avenue. The BEA was conducted on March 19, 2014.

According to the BEA, "based on the concentrations of arsenic, lead, and polynuclear aromatic hydrocarbons (PNAs) above the applicable GRCC, it was ASTI's opinion that the Property is a "facility" as

defined in Part 201 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201)".

### **3.1.2 Phase I ESA Update prepared by ASTI Environmental (dated February 24, 2014)**

In February 2014, ASTI prepared a Phase I ESA Update for the subject property on behalf of Woodward Avenue Action Association. The purpose of the report was to identify Recognized Environmental Conditions (RECs) in connection with the subject property. The following RECs, as quoted by ASTI, included the following:

- *"The Property is listed as an open leaking underground storage tank (LUST) site in regard to removal of one 5,000-gallon and three 550-gallon USTs. A release was reported in February 2003. One verification sample contained lead at \*1,100,000 which exceeds the residential screening level for soil direct contact of 400,000 µg/kg."*
- *"Results of a 2002 Phase II ESA reported levels of polynuclear aromatic hydrocarbons (PNAs) and the metals arsenic and lead in excess of the residential screening levels at several locations on the Property. It is likely that the area containing PNAs above residential screening levels was removed as part of a UST excavation."*
- *"Historical use of the Property included The Braun Lumber Co., H.W. Harding Lumber Co., United Fuel & Supply, railroad spurs, and suspected auto repair in the former executive garage."*
- *"Arsenic was detected at two locations exceeding the Part 201 direct contact criteria during ASTI's 2013 subsurface investigation."*

ASTI's Phase I ESA Update referenced a Subsurface Investigation Report prepared by AKT Peerless Environmental Services (dated July 9 and September 12, 2002). A summary of the findings of the 2002 Subsurface Investigation conducted by AKT Peerless included:

- *"AKT Peerless completed 10 borings, collected 22 soil samples, and collected one groundwater sample on July 9 and September 12, 2012."*
- *"Soil samples were submitted for analysis that included volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), Michigan metals, creosote, and polychlorinated biphenyls (PCBs)."*
- *"The groundwater sample was submitted for analysis of VOCs, PNAs, and Michigan metals."*
- *"No VOCs, PCBs, or creasote were detected above the Generic Residential Cleanup Criteria (GRCC)."*

- “The PNAs benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a,h)anthracene, and ideno (1,2,3-cd)pyrene were detected in one sample (B-5) above the GRCC for soil direct contact (DC) criteria.”
- “The metal arsenic was detected in three locations (B-1, B-2, and B-5) above the GRCC for soil DC criterion. Lead was detected in one location (B-1) above the GRCC for soil DC criteria.”

\* Documentation including the laboratory analytical report and the exact location and depth of the soil sample containing lead at a concentration of 1,100,000 ppb was not available for review during preparation of this DDCC report.

ASTI’s Phase I ESA Update also referenced a Subsurface Investigation conducted by ASTI Environmental (dated October 23, 2013). A summary of the findings of the 2013 Subsurface Investigation conducted by ASTI included:

- ASTI completed 8 soil borings and collected 9 soil samples on October 23, 2013.
- Soil samples were submitted for laboratory analysis of VOCs, PNAs, arsenic, cadmium, chromium and/or lead.
- “Soil analytical results did not detect any VOCs in the samples with the exception of benzene in soil sample SB-4 at a concentration below the applicable GRCC.”
- “Soil analytical results reported PNAs in soil samples SB-3 and SB-6 at concentrations below the applicable GRCC. The remaining samples reported no PNAs.”
- “Metal analytical results reported arsenic above the GRCC for DC in soil samples SB-1 and SB-6.”
- “Arsenic was reported below the applicable GRCC in the remaining samples.”
- “Cadmium, chromium, and lead were reported in each sample at concentrations below the GRCC.”

### 3.1.3 Limited Phase II Subsurface Investigation conducted by AKT Peerless, November 2014

AKT Peerless conducted sampling in areas requested by Tetra Tech, Inc. as described in the “Sampling and Analysis Plan (SAP) for the Highland Park Model T Site”, dated October 28, 2014. A summary of the findings of the investigation include the following:

- AKT Peerless completed 14 soil borings (HPMT-SB01 through HPMT-SB14) and collected 14 soil samples on November 12, 2014.
- Four of the soil borings were conducted proximal to the former UST area. The remaining ten soil borings were conducted throughout the remaining exterior portions of subject property.
- Soil samples were submitted for laboratory analysis of PNAs, arsenic, and lead.

- With the exception of the soil sample collected from soil boring HPMT-SB14, PNAs were not detected above the analytical method detection limits in any of the soil samples submitted for laboratory analysis.
- The soil sample collected from soil boring HPMT-SB-14 (2') contained several PNAs including 2-methylnaphthalene, acenaphthene, anthracene, benzo (a) anthracene, benzo (a) pyrene, benzo (k) fluoranthene, dibenzo (a,h) anthracene, fluorene, indeno (1,2,3-cd) pyrene, phenanthrene, and pyrene at concentrations above the laboratory analytical method detection limits but below all applicable GRCC and generic non-residential cleanup criteria (GNRCC).
- Arsenic was detected in soil samples HPMT-SB-01(7'), HPMT-SB-03(7.5'), HPMT-SB-04(7'), HPMT-SB-12(2'), HPMT-SB-13(2'), and HPMT-SB-14(2') at concentrations exceeding the GRCC and GNRCC for Drinking Water Protection (DWP), and Groundwater Surface Water Interface Protection (GSIP) criteria.
- The concentrations of arsenic detected in soil samples HPMT-SB-04(7') and HPMT-SB-13(2') also exceeded the GRCC DC criteria but not the GNRCC DC criteria.
- Lead was detected in soil sample HPMT-SB-14(2') at a concentration exceeding the GRCC DC criteria but not the GNRCC DC criteria.

Based on laboratory analytical results, the subject property meets the definition of a *facility*, as defined in Part 201 of the NREPA, Michigan PA 451, 1994, as amended. Refer to **Appendix C** for the 2014 Limited Phase II Subsurface Investigation Laboratory Analytical Reports.

### 3.2 Known Contamination above Non-Residential Criteria

Subsurface investigations were conducted at the subject property in 2002, 2013, and 2014. Refer to **sections 3.1.2 and 3.1.3** for a summary of these investigations that were designed to assess areas determined most likely to reveal impact on the subject property based on historical, observed, and recorded site conditions.

Relevant exposure pathways at the subject property are discussed in **section 3.5**. For the purposes of evaluating due care compliance based on the intended use of the subject property, AKT Peerless compared laboratory analytical results to MDEQ Generic Non-Residential Cleanup Criteria (GNRCC) as summarized in the following tables:

### Chemicals of Concern Exceeding MDEQ GNRCC (Soil)

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Non-Residential Criteria Exceeded/Established Criteria ( $\mu\text{g/kg}$ )	Maximum Concentration ( $\mu\text{g/kg}$ )/Sample Location
Arsenic	7440-38-2	HPMT-SB-01(7'), HPMT-SB-03(7.5'), HPMT-SB-04(7'), HPMT-SB-12(2'), HPMT-SB-13(2'), HPMT-SB-14(2') SB-1 (1.5-2.5') SB-6 (1.5-2.5') SB-8 0.5-1.5') B-1 (0-0.5') B-2 (0-0.5') B-2 (10-12') B-3 (0-0.5') B-3 (10-12') B-4 (8-10') B-5 (0-0.5') B-6 (0-0.5)	DWP / 4,600 GSIP / 4,600	16,000 /B-1 (0-0.5')
Chromium, total	7440-47-3	SB-1 (1.5-2.5') SB-2 (0.5-1.5') SB-3 (0.5-1.5') SB-4 (9.5-10.5') SB-5 (9-10') SB-6 (1.5-2.5') SB-7 (3-4') SB-8 (0.5-1.5') B-1 (0-0.5') B-1 (10-12') B-2 (0-0.5') B-2 (10-12') B-3 (0-0.5') B-3 (10-12') B-4 (0-0.5') B-4 (8-10') B-5 (0-0.5') B-6 (0-0.5)	DWP / 30,000 GSIP / 3,300	28,000/B-5 (0-0.5')

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance (depth)	Part 201 Non-Residential Criteria Exceeded/Established Criteria ( $\mu\text{g}/\text{kg}$ )	Maximum Concentration ( $\mu\text{g}/\text{kg}$ )/Sample Location
Mercury	7439-97-6	B-2 (0-0.5') B-3 (0-0.5') B-5 (0-0.5') B-6 (0-0.5)	GSIP / 50	480 / B-5 (0-0.5')
Selenium	7782-49-2	B-1 (0-0.5') B-2 (0-0.5') B-2 (10-12') B-3 (0-0.5') B-3 (10-12') B-4 (8-10') B-5 (0-0.5') B-6 (0-0.5)	GSIP / 400	1,300 / B-1 (0-0.5')
Acenaphthylene	208-96-8	B-5 (0-0.5')	DWP/17,000	30,000 / B-5 (0-0.5')
Benzo(a)pyrene	50-32-8	B-5 (0-0.5')	DC / 8,000	60,000 / B-5 (0-0.5')
Dibenzo (a,h) anthracene	53-70-3	B-5 (0-0.5')	DC / 8,000	8,900 / B-5 (0-0.5')
Fluoranthene	206-44-0	B-5 (0-0.5')	GSIP / 5,500	69,000 / B-5 (0-0.5')

**Notes:**

Sample identification: XX-# indicates soil boring and (#-#) indicates sample depth in feet.

$\mu\text{g}/\text{Kg}$  - micrograms per Kilogram

DWP – Drinking Water Protection Criteria

GSIP – Groundwater Surface Water Interface Protection Criteria

DC – Direct Contact Criteria

Refer to **Table 1** for a summary of soil analytical results. Refer to **Figure 2** for site a map depicting the sample locations.

### 3.3 Abandoned or Discarded Containers

AKT Peerless did not identify abandoned or discarded containers at the subject property.

### 3.4 Hazardous Substance Fate and Transport

During the completion of AKT Peerless' soil boring activities, the geology encountered in most areas of the site generally consisted of sand fill from just below the ground surface that extended to depths ranging from two to four feet below ground surface (bgs). The sand fill is underlain by a silty to sandy clay formation that extends to the maximum investigated depth of approximately 20 feet bgs. Saturated soils were not encountered in any of the soil borings advanced at the subject property.

Based on the analytical results obtained during the current and historic subsurface investigations at the subject property, AKT Peerless identified the presence of various metals and PNAs in unsaturated soils located beneath the subject property. Based on the known areas of contamination and the absence of groundwater (primary transport mechanism), it is AKT Peerless' opinion that the subsurface contamination identified at the subject property is not likely to migrate off-site at concentrations that exceed MDEQ Cleanup Criteria.

### **3.5 Exposure Pathway Evaluation**

The analysis of potential human exposure pathways is based on existing conditions at the subject property. The intended land use of the subject property falls under the Non-Residential use category. Therefore, hazardous substances identified on the subject property have been compared to MDEQ GNRCC for the purposes of the exposure pathway evaluation. The following subsections provide an evaluation of relevant exposure pathways and applicable criteria.

#### **3.5.1 Groundwater Surface Water Interface**

Arsenic, chromium (total), mercury, selenium and fluoranthene concentrations were identified in the soil above the MDEQ Non-Residential Groundwater Surface Water Interface Protection Screening Levels; however, since there are no surface water bodies located at or proximal to the subject property, it is AKT Peerless' opinion that known contaminants identified at the subject property are not likely to impact groundwater that may vent to surface water bodies of the state at concentrations that exceed MDEQ Cleanup Groundwater Surface Water Cleanup Criteria. Therefore, the Groundwater Surface Water Interface Protection pathway is not complete and does not appear to present a significant threat to the environment at this time.

#### **3.5.2 Soil Drinking Water Protection**

Arsenic, chromium (total), and acenaphthylene were identified in the soil above the MDEQ Non-Residential Drinking Water Protection Criteria; however, the subject property and surrounding area are provided with potable water exclusively from a municipal system, and future operations at the subject property do not include development of groundwater resources for the purpose of obtaining potable water. Further, no potable water supply wells are located on the subject property. Therefore, the Drinking Water Protection pathway is not complete and does not appear to present a significant exposure risk at this time.

#### **3.5.3 Soil Volatilization to Ambient Air Inhalation**

Based upon the review of the soil analytical results, no contaminants were detected at a concentration that exceeds the MDEQ Part 201 Generic Non-Residential Volatile Soil to Ambient Air Inhalation Cleanup Criteria. Therefore, based on current property conditions, the volatilization to ambient air inhalation pathway is not complete and does not appear to present a significant exposure risk.

#### **3.5.4 Soil Volatilization to Indoor Air Inhalation**

Based upon the review of the soil analytical results, no contaminants were detected at a concentration that exceeds the MDEQ Part 201 Generic Non-Residential Volatilization to Indoor Air Inhalation Cleanup Criteria. Therefore, based on current property conditions, the volatilization to indoor air inhalation pathway is not complete and does not appear to present a significant exposure risk at this time.

### **3.5.5 Soil Direct Contact**

Based upon the review of the soil analytical results, Dibenzo (a,h) anthracene and benzo(a)pyrene were identified at a concentration above the MDEQ Part 201 Generic Non-Residential Direct Contact Cleanup Criteria. This shallow impacted soil is located within an unpaved area north of the site building.

Therefore, AKT Peerless concluded that the contaminants detected in the soil may pose an unacceptable risk to any potential site occupants in terms of a direct contact exposure pathway.

### **3.5.6 Particulate Soil Inhalation**

Based upon the review of the soil analytical results, no chemicals of concern were identified at concentrations above the MDEQ Part 201 Generic Non-Residential Particulate Soil Inhalation Cleanup Criteria. Therefore, AKT Peerless concluded that the contaminants detected in the soil should not pose an unacceptable risk to any potential site occupants in terms of particulate inhalation exposure pathway at this time.

### **3.5.7 Potential Fire or Explosion Hazards**

Based on site conditions encountered and laboratory analytical results, no flammability, explosivity, or conditions immediately dangerous to life or health were identified in subsurface soil or groundwater at this time.

## **4.0 Plan for Response Activities**

Based on the known site conditions and the proposed use, there may be a direct contact exposure risk associated with the contamination identified at the subject property. AKT Peerless recommends mitigating this potential risk by either removal of the impacted soils in the area of soil boring B-5 or installation of a paved surface or clean soil cap. The approximate location of the recommended response activity is depicted in **Figure 2**.

### **4.1 Disclosure**

Attached as **Appendix B** is a Disclosure Statement to be provided to any contractor performing future subsurface work at the subject property. The purpose of the Disclosure Statement is to demonstrate compliance with obligations under 20107a(1)(b) and 20107a(1)(c). The statement will provide notice that soil contamination exists at the subject property and considerations must be taken when encountering and/or handling these materials.

## **5.0 Compliance with Section 7a Obligations**

The following sections provide documentation that the proposed continued Non-Residential use of the subject property will comply with Section 7a obligations.

### **5.1 Exacerbation**

There are no immediate plans that would disturb subsurface soils at the subject property; therefore, exacerbation of the existing contamination is unlikely. If the future intended use changes, additional environmental site assessment activities may be required in the area of redevelopment, prior to undertaking redevelopment activities.

## 5.2 Due Care

As presented in Section 3.5, unacceptable exposures to known contamination are not currently present at the subject property.

## 5.3 Reasonable Precautions

Section 20107a(1)(c) requires the owner/occupant to take reasonable precautions against the reasonable foreseeable acts or omissions of a third party, and the consequences that could result from those acts or omissions.

Potential third parties at the subject property will primarily consist of employees, customers, and maintenance personnel. A mechanism to notify contractors and utility workers has been established through the development of the Disclosure Statement (**Appendix B**). As previously stated, the Disclosure Statement will inform third parties that soil and groundwater contamination exists at the subject property and certain activities are restricted. The measures discussed in the disclosure statement have been established for the subject property owners to protect against unacceptable exposure.

## 5.4 Access

The owner/occupant will provide reasonable cooperation, assistance, and access to parties authorized to conduct response activities at the facility, as necessary. This includes cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response activity at the facility.

## 5.5 Compliance with Land Use/Resource Restrictions

The owner/occupant will comply with existing land use and resource use restrictions established or relied upon in connection with activities conducted at the facility. Furthermore, the owner/occupant will not impede the effectiveness or integrity of any land use or resource restriction employed at the facility in connection with future response activities.

## 6.0 Closing

AKT Peerless prepared this Documentation of Due Care Compliance on behalf of Tetra Tech, Inc., U.S. EPA Region 5, and Woodward Avenue Action Association for the property located at 14534 Woodward Avenue in Highland Park, Michigan, Wayne County, Michigan. AKT Peerless' scope of work is based on Section 20126(1)(c) of Part 201 of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended.



\_\_\_\_\_  
Jeremy Fox  
Project manager



\_\_\_\_\_  
Brett Shoaff  
Senior Project Manager

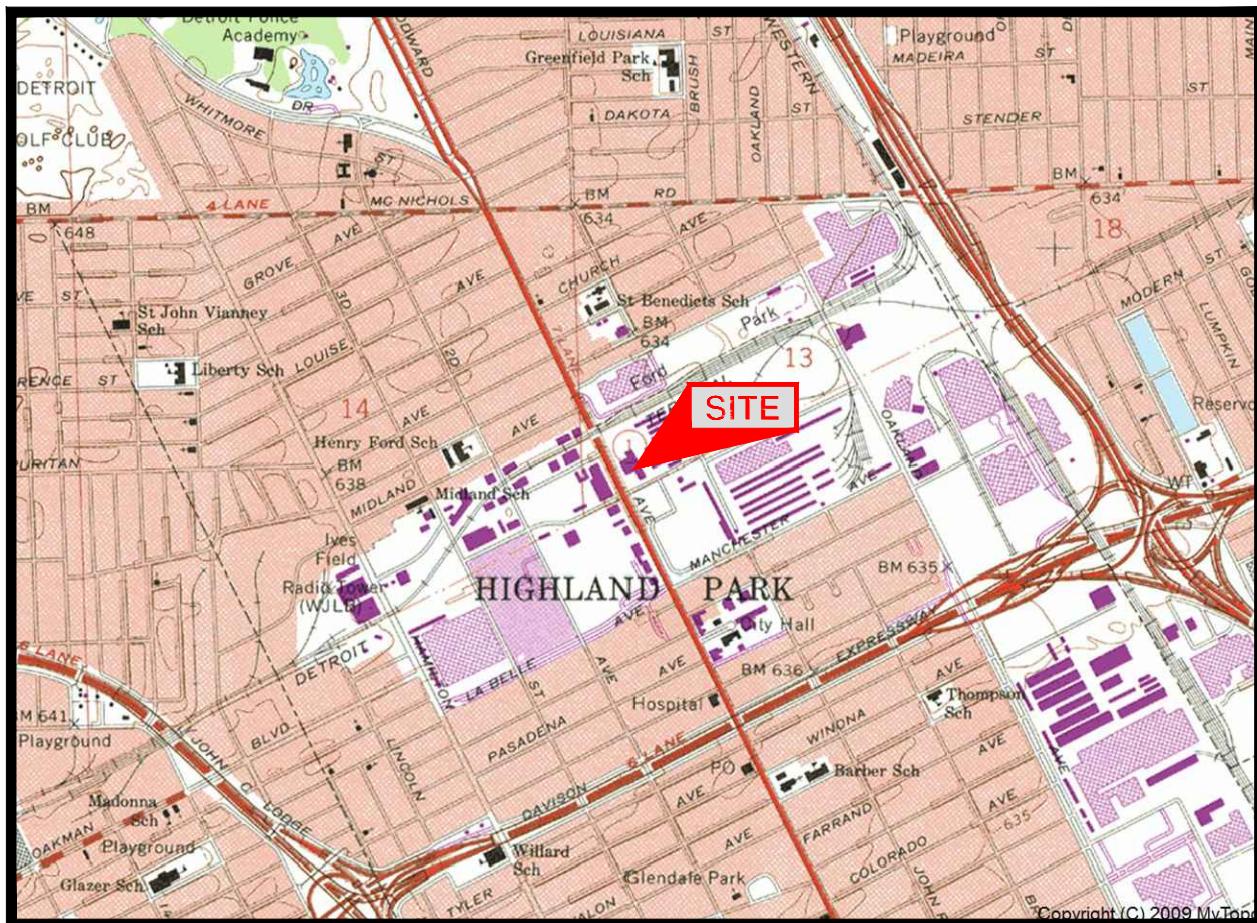
Phone: (248) 615-1333  
Email: [shoaffb@aktpeerless.com](mailto:shoaffb@aktpeerless.com)

## **Figures**

# HIGHLAND PARK QUADRANGLE

MICHIGAN - WAYNE COUNTY

7.5 MINUTE SERIES (TOPOGRAPHIC)



T.1 S.-R.11 E.



MICHIGAN  
QUADRANGLE LOCATION



IMAGE TAKEN FROM 1968 U.S.G.S. TOPOGRAPHIC MAP  
PHOTOREVISED 1983

**AKT PEERLESS**

ILLINOIS

MICHIGAN

OHIO

GEORGIA

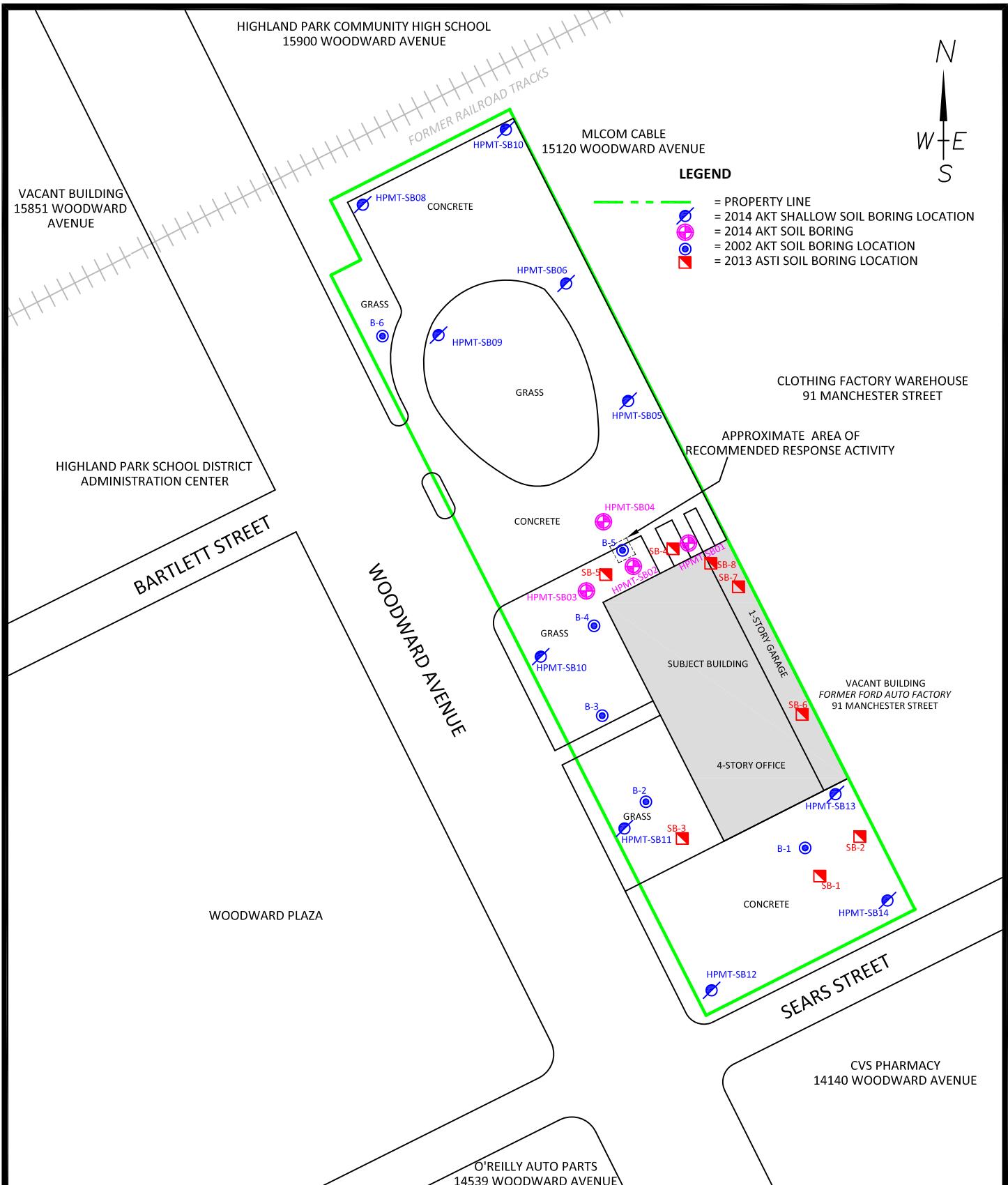
[www.aktpeerless.com](http://www.aktpeerless.com)

## TOPOGRAPHIC LOCATION MAP

14534 WOODWARD AVENUE  
HIGHLAND PARK, MICHIGAN  
PROJECT NUMBER : 3010F2-2-20

DRAWN BY: DDB  
DATE: 12/12/2014

FIGURE 1



**AKTPEERLESS**

ILLINOIS

MICHIGAN

OHIO

GEORGIA

www.aktpeerless.com

#### SITE MAP WITH SOIL BORING LOCATIONS

14534 WOODWARD AVENUE  
HIGHLAND PARK, MICHIGAN  
PROJECT NUMBER : 3010F2-2-20

DRAWN BY: DDB  
DATE: 12/12/2014

0 50 100  
SCALE: 1" = 100'

FIGURE 2

## **Tables**

**Table 1**  
**Summary of Soil Analytical Results**  
**14534 Woodward Avenue**  
**(a.k.a. 91 Manchester Road)**  
**Highland Park, Michigan**  
**AKT Peerless Project No. 3010F2-3-20**

Guidesheet Number →	#10	#18	#11	#21	#12	#13	#22	#23	#24	#25	#26	#27																
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Direct Contact Criteria and RBSLs	Residential Drinking Water Protection Criteria & RBSLs	Non-residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Groundwater Contact Protection Criteria & RBSLs	Non-Residential Soil Volatilization to Indoor Air Inhalation Criteria (VSIC) and RBSLs	Non-Residential Infinite Source Volatile Soil Inhalation Finite VSIC for 5 Meter Source Thickness	Non-Residential Finite VSIC for 2 Meter Source Thickness	Non-Residential Particulate Soil Inhalation Criteria and RBSLs	Non-Residential Direct Contact Criteria and RBSLs	Maximum Concentration Detected	Sample Location	HPMT-SB01(7)111214	HPMT-SB02(7)111214	HPMT-SB03(7.5')111214	HPMT-SB04(7)111214	HPMT-SB04(7)111214D	HPMT-SB05(2')111214	HPMT-SB06(2')111214	HPMT-SB07(2')111214	HPMT-SB08(2')111214	HPMT-SB09(2')111214	HPMT-SB10(2.5')111214			
														Collection Date	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014	11/12/2014				
														Depth (feet bgs)	7'	7'	7.5'	7'	7'	2'	2'	2'	2'	2.5'				
<b>Metals ug/Kg</b>																												
Mercury, Total	7439-97-6	130	1.6E+5	1,700	1,700	50 (M); 1.2	47,000	89,000	62,000	62,000	62,000	8.8E+6	5.8E+5	480		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Arsenic	7440-38-2	5,800	7,600	4,600	4,600	4,600	2.0E+6	NLV	NLV	NLV	NLV	9.1E+5	37,000	16,000		5,700	4,400	5,800	10,000	7,900	3,600	1,300	580	700	2,200	2,100		
Barium (B)	7440-39-3	75,000	3.7E+7	1.3E+6	1.3E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	1.5E+8	1.3E+8	120,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium (B)	7440-43-9	1,200	5.5E+5	6,000	6,000	(G,X)	2.3E+8	NLV	NLV	NLV	NLV	2.2E+6	2.1E+6	1,600		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium, Total	7440-47-3	18,000 (total)	2.5E+6	30,000	30,000	3,300	1.4E+8	NLV	NLV	NLV	NLV	2.4E+5	9.2E+6	28,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper (B)	7440-50-8	32,000	2.0E+7	5.8E+6	5.8E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	5.9E+7	7.3E+7	73,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (B)	7439-92-1	21,000	4.0E+5	7.0E+5	7.0E+5	(G,X)	ID	NLV	NLV	NLV	NLV	4.4E+7	9.0E+5 (DD)	720,000		6,600	29,000	7,500	7,400	5,900	3,700	1,900	1,600	<1,000	2,500	8,700		
Selenium (B)	7782-49-2	410	2.6E+6	4,000	4,000	400	7.8E+7	NLV	NLV	NLV	NLV	5.9E+7	9.6E+6	1,300		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (B)	7440-66-6	47,000	1.7E+8	2.4E+6	5.0E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	ID	6.3E+8	190,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Semivolatiles, ug/Kg</b>																												
2-Methylnaphthalene	91-57-6	NA	8.1E+6	57,000	1.7E+5	4,200	5.5E+6	4.9E+6	1.8E+6	1.8E+6	2.9E+8	2.6E+7	630		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
Acenaphthene	83-32-9	NA	4.1E+7	3.0E+5	8.8E+5	8,700	9.7E+5	3.5E+8	9.7E+7	9.7E+7	6.2E+9	1.3E+8	720		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
Acenaphthylene	208-96-8	NA	1.6E+6	5,900	17,000	ID	4.4E+5	3.0E+6	2.7E+6	2.7E+6	1.0E+9	5.2E+6	30,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
Anthracene	120-12-7	NA	2.3E+8	41,000	41,000	ID	41,000	1.0E+9 (D)	1.6E+9	1.6E+9	2.9E+10	7.3E+8	15,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
Benzo(a)anthracene (Q)	56-55-3	NA	20,000	NLL	NLL	NLL	NLV	NLV	NLV	ID	80,000	43,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	
Benzo(a)pyrene (Q)	50-32-8	NA	2,000	NLL	NLL	NLL	NLV	NLV	NLV	ID	1.9E+6	8,000	60,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
Benzo(b)fluoranthene (Q)	205-99-2	NA	20,000	NLL	NLL	NLL	NLL	ID	ID	ID	80,000	61,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	
Benzo(g,h,i)perylene	191-24-2	NA	2.5E+6	NLL	NLL	NLL	NLV	NLV	NLV	NLV	3.5E+8	7.0E+6	37,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
Benzo(k)fluoranthene (Q)	207-08-9	NA	2.0E+5	NLL	NLL	NLL	NLV	NLV	NLV	ID	8.0E+5	55,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	
Chrysene (Q)	218-01-9	NA	2.0E+6	NLL	NLL	NLL	NLL	ID	ID	ID	8.0E+6	48,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	
Dibenzo(a,h)anthracene (Q)	53-70-																											

**Table 1**  
**Summary of Soil Analytical Results**  
**14534 Woodward Avenue**  
**(a.k.a. 91 Manchester Road)**  
**Highland Park, Michigan**  
**AKT Peerless Project No. 3010F2-3-20**

Guidesheet Number →	#10	#18	#11	#21	#12	#13	#22	#23	#24	#25	#26	#27															
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Direct Contact Criteria and RBSLs	Residential Drinking Water Protection Criteria & RBSLs	Non-residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Groundwater Contact Protection Criteria & RBSLs	Non-Residential Soil Volatilization to Indoor Air Inhalation Criteria (VSIC) and RBSLs	Non-Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs	Non-Residential Finite VSIC for 5 Meter Source Thickness	Non-Residential Finite VSIC for 2 Meter Source Thickness	Non-Residential Particulate Soil Inhalation Criteria and RBSLs	Non-Residential Direct Contact Criteria and RBSLs	Maximum Concentration Detected	Sample Location	HPMT-SB11(2')111214	HPMT-SB12(2')111214	HPMT-SB13(2')111214	HPMT-SB14(2')111214	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	
															Collection Date	11/12/2014	11/12/2014	11/12/2014	11/12/2014	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	
															Depth (feet bgs)	2'	2'	2'	2'	1.5-2.5'	0.5-1.5'	0.5-1.5'	9.5-10.5'	9-10'	1.5-2.5'	3-4'	
<b>Metals ug/Kg</b>																											
Mercury, Total	7439-97-6	130	1.6E+5	1,700	1,700	50 (M); 1.2	47,000	89,000	62,000	62,000	8.8E+6	5.8E+5	480		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	7440-38-2	5,800	7,600	4,600	4,600	4,600	2.0E+6	NLV	NLV	NLV	9.1E+5	37,000	16,000		4,500	5,700	7,800	6,800	13,000	3,300	3,300	2,200	NA	NA	8,400	NA	
Barium (B)	7440-39-3	75,000	3.7E+7	1.3E+6	1.3E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	1.5E+8	1.3E+8	120,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium (B)	7440-43-9	1,200	5.5E+5	6,000	6,000	(G,X)	2.3E+8	NLV	NLV	NLV	2.2E+6	2.1E+6	1,600		NA	NA	NA	NA	NA	290	<200	<200	NA	<200	750	<200	210
Chromium, Total	7440-47-3	18,000 (total)	2.5E+6	30,000	30,000	3,300	1.4E+8	NLV	NLV	NLV	2.4E+5	9.2E+6	28,000		NA	NA	NA	NA	NA	20,000	8,100	5,900	NA	9,300	16,000	20,000	11,000
Copper (B)	7440-50-8	32,000	2.0E+7	5.8E+6	5.8E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	5.9E+7	7.3E+7	73,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead (B)	7439-92-1	21,000	4.0E+5	7.0E+5	7.0E+5	(G,X)	ID	NLV	NLV	NLV	4.4E+7	9.0E+5 (DD)	720,000		20,000	7,200	42,000	410,000	10,000	21,000	11,000	NA	19,000	100,000	9,300	42,000	
Selenium (B)	7782-49-2	410	2.6E+6	4,000	4,000	400	7.8E+7	NLV	NLV	NLV	5.9E+7	9.6E+6	1,300		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc (B)	7440-66-6	47,000	1.7E+8	2.4E+6	5.0E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	ID	6.3E+8	190,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Semivolatiles, ug/Kg</b>																											
2-Methylnaphthalene	91-57-6	NA	8.1E+6	57,000	1.7E+5	4,200	5.5E+6	4.9E+6	1.8E+6	1.8E+6	2.9E+8	2.6E+7	630		<330	<330	<330	630	<330	<330	<330	<330	<330	<330	<330	<330	
Acenaphthene	83-32-9	NA	4.1E+7	3.0E+5	8.8E+5	8,700	9.7E+5	3.5E+8	9.7E+7	9.7E+7	6.2E+9	1.3E+8	720		<330	<330	720	<330	<330	<330	<330	<330	<330	<330	<330		
Acenaphthylene	208-96-8	NA	1.6E+6	5,900	17,000	ID	4.4E+5	3.0E+6	2.7E+6	2.7E+6	1.0E+9	30,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330		
Anthracene	120-12-7	NA	2.3E+8	41,000	41,000	ID	41,000	1.0E+9 (D)	1.6E+9	1.6E+9	2.9E+10	7.3E+8	15,000		<330	<330	430	<330	<330	<300	<300	<300	1,200	<300			
Benzo(a)anthracene (Q)	56-55-3	NA	20,000	NLL	NLL	NLL	NLV	NLV	NLV	ID	80,000	43,000		<330	<330	350	<330	<330	<330	<330	<330	<330	2,100	<330			
Benzo(a)pyrene (Q)	50-32-8	NA	2,000	NLL	NLL	NLL	NLV	NLV	NLV	ID	1.9E+6	8,000	60,000		<330	<330	670	<330	<330	<330	<330	<330	1,800	<330			
Benzo(b)fluoranthene (Q)	205-99-2	NA	20,000	NLL	NLL	NLL	ID	ID	ID	ID	80,000	61,000		<330	<330	<330	<330	<330	<330	<330	<330	2,300	<330				
Benzo(g,h,i)perylene	191-24-2	NA	2.5E+6	NLL	NLL	NLL	NLV	NLV	NLV	3.5E+8	7.0E+6	37,000		<330	<330	<330	<330	<330	<330	<330	<330	920	<330				
Benzo(k)fluoranthene (Q)	207-08-9	NA	2.0E+5	NLL	NLL	NLL	NLV	NLV	NLV	ID	8.0E+5	55,000		<330	<330	440	<330	<330	<330	<330	<330	850	<330				
Chrysene (Q)	218-01-9	NA	2.0E+6	NLL	NLL	NLL	ID	ID	ID	ID	8.0E+6	48,000		<330	<330	<330	<330	<330	<330	<330	<330	1,800	<330				
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	2,000	NLL	NLL	NLL	NLV	NLV	NLV	ID	8,000	8,900		<330	<330	1,100	<330	<330	<330	<330	<330	370	<330				
Fluoranthene	206-44-0	NA	4.6E+7	7.3E+5	5,500	7.3E+5	1.0E+9 (D)	8.9E+8	8.8E+8	8.8E+8	4.1E+9	1.3E+8	69,000		<330	<330	<330	<330									

**Table 1**  
**Summary of Soil Analytical Results**  
**14534 Woodward Avenue**  
**(a.k.a. 91 Manchester Road)**  
**Highland Park, Michigan**  
**AKT Peerless Project No. 3010F2-3-20**

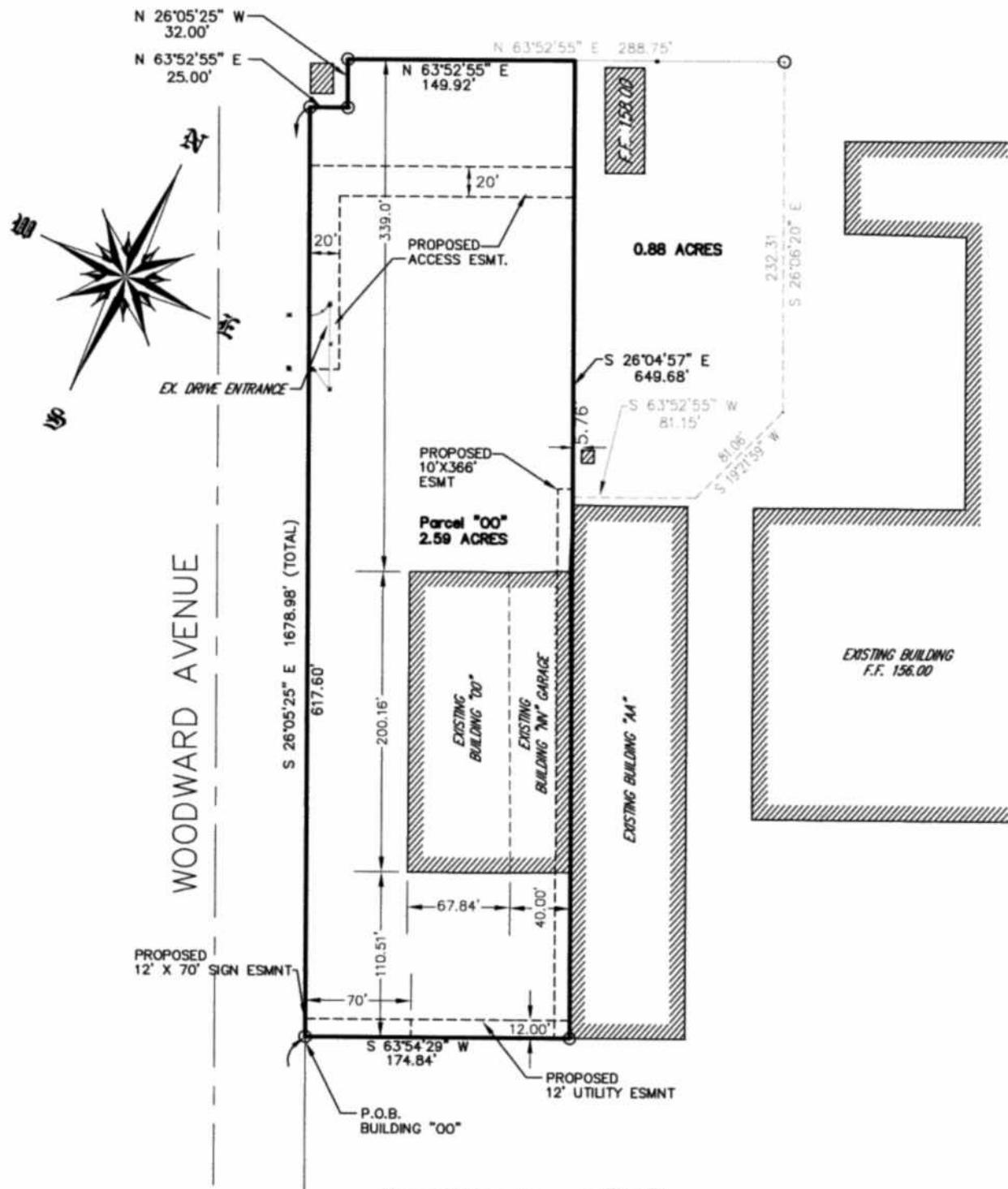
Guidesheet Number →	#10	#18	#11	#21	#12	#13	#22	#23	#24	#25	#26	#27															
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Direct Contact Criteria and RBSLs	Residential Drinking Water Protection Criteria & RBSLs	Non-residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Groundwater Contact Protection Criteria & RBSLs	Non-Residential Soil Volatilization to Indoor Air Inhalation Criteria and RBSLs	Non-Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs	Non-Residential Finite VSIC for 5 Meter Source Thickness	Non-Residential Finite VSIC for 2 Meter Source Thickness	Non-Residential Particulate Soil Inhalation Criteria and RBSLs	Non-Residential Direct Contact Criteria and RBSLs	Maximum Concentration Detected	Sample Location	SB-8	B-1 (0-0.5)	B-1 (10-12)	B-2 (0-0.5)	B-2 (6-8)	B-2 (10-12)	B-3 (0-0.5)	B-3 (10-12)	B-4 (0-0.5)	B-4 (8-10)	B-5 (0-0.5)	B-5 (2)
															Collection Date	10/23/2013	7/9/2002	7/9/2002	7/9/2002	7/9/2002	7/9/2002	7/9/2002	7/9/2002	7/9/2002	7/9/2002	7/9/2002	7/9/2002
															Depth (feet bgs)	0.5-1.5'	0-0.5'	10-12'	0-0.5'	6-8'	10-12'	0-0.5'	10-12'	0-0.5'	8-10'	0-0.5'	2'
<b>Metals ug/Kg</b>																											
Mercury, Total	7439-97-6	130	1.6E+5	1,700	1,700	<b>50 (M); 1.2</b>	47,000	89,000	62,000	62,000	8.8E+6	5.8E+5	480		NA	<100	<100	<b>150</b>	NA	<100	<b>150</b>	<100	<100	<b>480</b>	NA		
Arsenic	7440-38-2	5,800	<b>7,600</b>	<b>4,600</b>	<b>4,600</b>	<b>4,600</b>	2.0E+6	NLV	NLV	NLV	9.1E+5	37,000	16,000		<b>6,500</b>	<b>16,000</b>	<b>2,100</b>	<b>7,700</b>	NA	<b>5,300</b>	<b>7,500</b>	<b>6,400</b>	<b>3,200</b>	<b>6,500</b>	<b>8,700</b>	NA	
Barium (B)	7440-39-3	75,000	3.7E+7	1.3E+6	1.3E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	1.5E+8	1.3E+8	120,000		NA	<b>100,000</b>	<b>12,000</b>	<b>68,000</b>	NA	<b>56,000</b>	<b>70,000</b>	<b>59,000</b>	<b>45,000</b>	<b>65,000</b>	<b>120,000</b>	NA	
Cadmium (B)	7440-43-9	1,200	5.5E+5	6,000	6,000	(G,X)	2.3E+8	NLV	NLV	NLV	2.2E+6	2.1E+6	1,600		<200	330	87	670	NA	240	830	120	250	120	1,600	NA	
Chromium, Total	7440-47-3	18,000 (total)	2.5E+6	<b>30,000</b>	<b>30,000</b>	<b>3,300</b>	1.4E+8	NLV	NLV	NLV	2.4E+5	9.2E+6	28,000			<b>6,700</b>	<b>20,000</b>	<b>6,900</b>	<b>14,000</b>	NA	<b>15,000</b>	<b>15,000</b>	<b>16,000</b>	<b>9,500</b>	<b>17,000</b>	<b>28,000</b>	NA
Copper (B)	7440-50-8	32,000	2.0E+7	5.8E+6	5.8E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	5.9E+7	7.3E+7	73,000			NA	<b>16,000</b>	<b>5,600</b>	<b>47,000</b>	NA	20,000	<b>57,000</b>	<b>13,000</b>	<b>17,000</b>	<b>13,000</b>	<b>73,000</b>	NA
Lead (B)	7439-92-1	21,000	<b>4.0E+5</b>	7.0E+5	7.0E+5	(G,X)	ID	NLV	NLV	NLV	4.4E+7	9.0E+5 (DD)	720,000			<b>24,000</b>	<b>33,000</b>	<b>720,000</b>	<b>120,000</b>	NA	<b>40,000</b>	<b>140,000</b>	<b>9,800</b>	<b>34,000</b>	<b>92,000</b>	<b>280,000</b>	NA
Selenium (B)	7782-49-2	410	2.6E+6	4,000	4,000	<b>400</b>	7.8E+7	NLV	NLV	NLV	5.9E+7	9.6E+6	1,300			NA	<b>1,300</b>	<b>250</b>	<b>770</b>	NA	<b>610</b>	<b>920</b>	<b>630</b>	<b>350</b>	<b>650</b>	<b>750</b>	NA
Zinc (B)	7440-66-6	47,000	1.7E-8	2.4E+6	5.0E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	ID	6.3E+8	190,000			NA	<b>54,000</b>	<b>15,000</b>	<b>110,000</b>	NA	<b>52,000</b>	<b>130,000</b>	<b>36,000</b>	<b>41,000</b>	<b>40,000</b>	<b>190,000</b>	NA
<b>Semivolatiles, ug/Kg</b>																											
2-Methylnaphthalene	91-57-6	NA	8.1E+6	57,000	1.7E+5	4,200	5.5E+6	4.9E+6	1.8E+6	1.8E+6	2.9E+8	2.6E+7	630		<330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Acenaphthene	83-32-9	NA	4.1E+7	3.0E+5	8.8E+5	8,700	9.7E+5	3.5E+8	9.7E+7	9.7E+7	6.2E+9	1.3E+8	720		<330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Acenaphthylene	208-96-8	NA	1.6E+6	<b>5,900</b>	<b>17,000</b>	ID	4.4E+5	3.0E+6	2.7E+6	2.7E+6	1.0E+9	5.2E+6	30,000		<330	<330	<330	<330	<330	<330	<330	<330	<330	<b>30,000</b>	<330		
Anthracene	120-12-7	NA	2.3E+8	41,000	41,000	ID	41,000	1.0E+9 (D)	1.6E+9	1.6E+9	2.9E+10	7.3E+8	15,000		<330	<330	640	<330	<330	<330	<330	<330	<330	<b>15,000</b>	<330		
Benzo(a)anthracene (Q)	56-55-3	NA	<b>20,000</b>	NLL	NLL	NLL	NLV	NLV	NLV	ID	80,000	43,000		<330	<330	<b>1,600</b>	<330	<b>700</b>	<330	<330	<330	<330	<b>43,000</b>	<b>440</b>			
Benzo(a)pyrene (Q)	50-32-8	NA	<b>2,000</b>	NLL	NLL	NLL	NLV	NLV	NLV	ID	1.9E+6	<b>8,000</b>	60,000		<330	<330	<b>1,300</b>	<330	<b>620</b>	<330	<330	<330	<b>60,000</b>	<b>380</b>			
Benzo(b)fluoranthene (Q)	205-99-2	NA	<b>20,000</b>	NLL	NLL	NLL	ID	ID	ID	ID	80,000	61,000		<330	<330	<b>1,400</b>	<330	<b>670</b>	<330	<330	<330	<b>61,000</b>	<b>460</b>				
Benzo(g,h,i)perylene	191-24-2	NA	2.5E+6	NLL	NLL	NLL	NLV	NLV	NLV	NLV	3.5E+8	7.0E+6	37,000		<330	<b>830</b>	<330	<b>510</b>	<330	<330	<330	<b>37,000</b>	<330				
Benzo(k)fluoranthene (Q)	207-08-9	NA	2.0E+5	NLL	NLL	NLL	NLV	NLV	NLV	ID	8.0E+5	55,000		<330	<330	<b>1,400</b>	<330	<b>730</b>	<330	<330	<33						

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**14534 Woodward Avenue**  
**(a.k.a. 91 Manchester Road)**  
**Highland Park, Michigan**  
**AKT Peerless Project No. 3010F2-3-20**

Guidesheet Number →	#10	#18	#11	#21	#12	#13	#22	#23	#24	#25	#26	#27						
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Direct Contact Criteria and RBSLs	Residential Drinking Water Protection Criteria & RBSLs	Non-residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Groundwater Protection Criteria & RBSLs	Non-Residential Soil Volatilization to Indoor Air Inhalation Criteria and RBSLs	Non-Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs	Non-Residential Finite VSIC for 5 Meter Source Thickness	Non-Residential Finite VSIC for 2 Meter Source Thickness	Non-Residential Particulate Soil Inhalation Criteria and RBSLs	Non-Residential Direct Contact Criteria and RBSLs	Maximum Concentration Detected	Sample Location	B-5 (10-12)	B-6 (0-0.5)	B-6 (10-12)
*(Refer to detailed laboratory report for method reference data)															Collection Date	7/9/2002	7/9/2002	7/9/2002
															Depth (feet bgs)	10-12'	0-0.5'	10-12'
<b>Metals ug/Kg</b>																		
Mercury, Total	7439-97-6	130	1.6E+5	1,700	1,700	<b>50 (M); 1.2</b>	47,000	89,000	62,000	62,000	62,000	8.8E+6	5.8E+5	480		NA	<b>200</b>	NA
Arsenic	7440-38-2	5,800	<b>7,600</b>	<b>4,600</b>	<b>4,600</b>	<b>4,600</b>	2.0E+6	NLV	NLV	NLV	NLV	9.1E+5	37,000	16,000		NA	<b>5,800</b>	NA
Barium (B)	7440-39-3	75,000	3.7E+7	1.3E+6	1.3E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	1.5E+8	1.3E+8	120,000		NA	<b>68,000</b>	NA
Cadmium (B)	7440-43-9	1,200	5.5E+5	6,000	6,000	(G,X)	2.3E+8	NLV	NLV	NLV	NLV	2.2E+6	2.1E+6	1,600		NA	660	NA
Chromium, Total	7440-47-3	18,000 (total)	2.5E+6	<b>30,000</b>	<b>30,000</b>	<b>3,300</b>	1.4E+8	NLV	NLV	NLV	NLV	2.4E+5	9.2E+6	28,000		NA	<b>14,000</b>	NA
Copper (B)	7440-50-8	32,000	2.0E+7	5.8E+6	5.8E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	5.9E+7	7.3E+7	73,000		NA	<b>47,000</b>	NA
Lead (B)	7439-92-1	21,000	<b>4.0E+5</b>	7.0E+5	7.0E+5	(G,X)	ID	NLV	NLV	NLV	NLV	4.4E+7	9.0E+5 (DD)	720,000		NA	<b>130,000</b>	NA
Selenium (B)	7782-49-2	410	2.6E+6	4,000	4,000	<b>400</b>	7.8E+7	NLV	NLV	NLV	NLV	5.9E+7	9.6E+6	1,300		NA	<b>710</b>	NA
Zinc (B)	7440-66-6	47,000	1.7E+8	2.4E+6	5.0E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	ID	6.3E+8	190,000		NA	<b>100,000</b>	NA
<b>Semivolatiles, ug/Kg</b>																		
2-Methylnaphthalene	91-57-6	NA	8.1E+6	57,000	1.7E+5	4,200	5.5E+6	4.9E+6	1.8E+6	1.8E+6	2.9E+8	2.6E+7	630		NA	NA	NA	
Acenaphthene	83-32-9	NA	4.1E+7	3.0E+5	8.8E+5	8,700	9.7E+5	3.5E+8	9.7E+7	9.7E+7	6.2E+9	1.3E+8	720		NA	NA	NA	
Acenaphthylene	208-96-8	NA	1.6E+6	<b>5,900</b>	<b>17,000</b>	ID	4.4E+5	3.0E+6	2.7E+6	2.7E+6	1.0E+9	5.2E+6	30,000		<330	<330	<330	
Anthracene	120-12-7	NA	2.3E+8	41,000	41,000	ID	41,000	1.0E+9 (D)	1.6E+9	1.6E+9	2.9E+10	7.3E+8	15,000		<330	<330	<330	
Benzo(a)anthracene (Q)	56-55-3	NA	<b>20,000</b>	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000	43,000		<330	<330	<330	
Benzo(a)pyrene (Q)	50-32-8	NA	<b>2,000</b>	NLL	NLL	NLL	NLV	NLV	NLV	NLV	1.9E+6	<b>8,000</b>	60,000		<330	<330	<330	
Benzo(b)fluoranthene (Q)	205-99-2	NA	<b>20,000</b>	NLL	NLL	NLL	ID	ID	ID	ID	80,000	61,000			<330	<330	<330	
Benzo(g,h,i)perylene	191-24-2	NA	2.5E+6	NLL	NLL	NLL	NLV	NLV	NLV	NLV	3.5E+8	7.0E+6	37,000		<330	<330	<330	
Benzo(k)fluoranthene (Q)	207-08-9	NA	2.0E+5	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	8.0E+5	55,000		<330	<330	<330	
Chrysene (Q)	218-01-9	NA	2.0E+6	NLL	NLL	NLL	ID	ID	ID	ID	ID	8.0E+6	48,000		<330	<330	<330	
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	<b>2,000</b>	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	<b>8,000</b>	8,900		<330	<330	<330	
Fluoranthene	206-44-0	NA	4.6E+7	7.3E+5	7.3E+5	<b>5,500</b>	7.3E+5	1.0E+9 (D)	8.9E+8	8.8E+8	8.8E+8	4.1E+9	1.3E+8	69,000		<330	<330	<330
Fluorene	86-73-7	NA	2.7E+7	3.9E+5	8.9E+5	5,300	8.9E+5	1.0E+9 (D)	1.5E+8	1.5E+8	1.5E+8	4.1E+9	8.7E+7	1,100		<330	<330	<330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	<b>20,000</b>	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000	41,000		<330	<330	<330	
Phenanthrene	85-01-8	NA	1.6E+6	56,000	1.6E+5	2,100	1.1E+6	5.1E+6	1.9E+5	1.9E+5	1.9E+5	2.9E+6	5.2E+6	1,500		<330	<330	<330
Pyrene	129-00-0	NA	2.9E+7	4.8E+5	4.8E+5	ID	4.8E+5	1.0E+9 (D)	7.8E+8	7.8E+8	7.8E+8	2.9E+9	8.4E+7	65,000		<330	<330	<330
<b>Volatiles, VOCs ug/Kg</b>																		
Benzene (I)	71-43-2	NA	1.8E+5	100	100	4,000 (X)	2.2E+5	8,400	45,000	99,000	2.3E+5	4.7E+8	4.0E+5 (C)	100		<50	<50	<50
Tetrachloroethylene	127-18-4	NA	2.0E+5 (C)	100	100	1,200 (X)	88,000 (C)	60,000	6.0E+5	1.4E+6	3.3E+6	6.8E+9	88,000 (C)	100		<50	<50	<50
Toluene (I)	108-88-3	NA	5.0E+7 (C)	16,000	16,000	5,400	2.5E+5 (C)	3.3E+6	3.6E+7	1.2E+10	2.5E+5 (C)	<100			<50	<50	<50	
Xylenes (I)	1330-20-7	NA	4.1E+8 (C)	5,600	5,600	820	1.5E+5 (C)	1.5E+5 (C)	6.5E+7	1.3E+8	1.3E+11	1.5E+5 (C)	400		<150	<150	<150	

**Appendix A**  
**LEGAL DESCRIPTION**

# PARCEL SPLIT



### Description Parcel "00":

PART OF LOT 1, OF WILLCOX'S SUBDIVISION, T.1S., R.11E., CITY OF HIGHLAND PARK, WAYNE COUNTY, MICHIGAN AS RECORDED IN LIBER 1, PAGE 267 OF PLATS, WAYNE COUNTY RECORDS AND ALSO PART OF LOT 8, OF 1/4 SECTION 4 OF PLAT OF THE SUBDIVISION INTO PARK LOTS OF QUARTER SECTION NUMBERS 4,5,44,45,55,56,57 AND 58 IN THE TEN THOUSAND ACRE TRACT, CITY OF HIGHLAND PARK, WAYNE COUNTY, MICHIGAN AS RECORDED IN LIBER 34, PAGE 332 OF DEEDS, WAYNE COUNTY RECORDS BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE EASTERLY LINE OF WOODWARD AVENUE (120 FOOT WIDE) AND THE NORTHERLY LINE OF MANCHESTER AVENUE (60 FOOT WIDE); THENCE N 26°05'25" W, ALONG THE EASTERLY LINE OF SAID WOODWARD AVENUE, 1061.38 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING N 26°05'25" W, 617.60 FEET; THENCE N 63°52'55" E, 25.00 FEET; THENCE N 26°05'25" W, 32.00 FEET; THENCE N 63°52'55" E, 149.92 FEET; THENCE S 26°04'57" E, 649.68 FEET; THENCE S 63°54'29" W, 174.84 FEET TO THE POINT OF BEGINNING. CONTAINING 2.59 ACRES OF LAND.

INTERSECTION OF THE  
EASTERLY LINE OF  
WOODWARD AVENUE  
(120 FOOT WIDE) AND  
THE NORTHERLY LINE OF  
MANCHESTER AVENUE  
(60 FOOT WIDE)

CLIENT:

**MEI**

Mickalich Engineering, Inc.  
Civil Engineering | Land Surveying | Planning

15243 Hawley Road (586) 245-9872  
Holly, MI 48442 amickalich@gmail.com

DATE	04/11/13
SCALE	1" = 100'
SHEET	1 OF 1
JOB	108

**Appendix B**  
**DISCLOSURE STATEMENT**

# **Disclosure Statement**

**14534 Woodward Avenue**

**Highland Park, Michigan**

**January 8, 2015**

Concentrations of various heavy metals and polynuclear aromatic hydrocarbons (PNAs) were detected in the soil above Non-Residential Michigan Department of Environmental Quality (MDEQ) Cleanup Criteria. The measures outlined in the Disclosure Statement must be taken to minimize the risks to public health and the environment.

The following measures must be taken to minimize the risks to public health and the environment if activities at the subject property (i.e., maintenance, repair, etc.) include coming into contact with the contaminated soil or groundwater:

- An environmental consultant should be retained to provide oversight during any activities that may disturb any potentially contaminated soil or groundwater to ensure that worker safety's proper waste characterization, manifesting, and disposal protocols are being followed.
- Excavation in the areas of impact should be restricted except for the purpose of construction, utility installation/repair, or property maintenance. Excavation activities must be conducted under a Site Specific Health and Safety Plan (SSHASP). Any contractors working with materials containing potentially hazardous substances must prepare a site-specific SSHASP, which should include, at a minimum, emergency contact numbers, hospital locations, descriptions of appropriate personal protective equipment, and decontamination procedures. SSHASPs prepared for this work must be reviewed by all workers assigned to the project.
- Soil disturbance activities (i.e., grubbing, grading, land-balancing, excavations, etc.) should only commence upon the implementation of soil erosion controls, as required by local, state and/or federal agencies. Soil cannot be removed from the subject property unless it is characterized to determine if it can be relocated without posing a threat to the public health, safety, welfare, or the environment at the new location. Excavated soil may be returned to the excavation on the subject property after completion of work. During excavation, the soil should be segregated to ensure no contaminated soil is mixed with non-impacted surficial soil or left on the ground surface. When excavated soil cannot be returned to the excavation, the soil must be properly characterized and disposed at a licensed disposal facility in accordance with local, State and Federal regulations. Proper disposal arrangements should be made prior to initiating work to avoid stockpiling contaminated soil on the subject property. Contractors disposing of soil off-site shall notify the MDEQ Remediation and Redevelopment Division (RRD) of the activity within 14-days of the removal of the soil.

- Open excavations must be properly maintained and barricaded when excavated soil cannot be immediately returned to the excavation. Promptly fill excavations, below grade areas or voids from construction activities to ensure that groundwater and/or surface runoff does not collect within.
- If groundwater is encountered and must be removed from excavations, it must be properly characterized and/or disposed in accordance with applicable rules and regulations. It is generally not permissible to pump groundwater to storm or sanitary sewers without proper permits and monitoring required by the local unit of government and/or the State. It is also not generally permissible to pump groundwater onto the ground surface of the subject property. In the event that excavations require dewatering, the groundwater must be containerized and characterized for off-site disposal or a permit for pretreating and discharge to the sanitary sewer should be obtained (if necessary).

I have read and understand this Disclosure Statement.

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Signature

---

Printed Name

---

Company

---

Date

**Appendix c**  
**LABORATORY ANALYTICAL REPORTS**

Thursday, November 20, 2014

Fibertec Project Number: 65302  
Project Identification: Highland Park Model T Site 14534 Woodward Ave. Highland Park, MI/  
Submittal Date: 11/13/2014

Mr. Brett Shoaff  
AKT Peerless Environ. Svcs, Inc. - Farm. Hills  
22725 Orchard Lake Road  
Farmington Hills, MI 48336

Dear Mr. Shoaff,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,



Daryl P. Strandbergh  
Laboratory Director

DPS/cdh

Enclosures

---

1914 Holloway Drive  
11766 E. Grand River  
8660 S. Mackinaw Trail

Holt, MI 48842  
Brighton, MI 48116  
Cadillac, MI 49601

T: (517) 699-0345  
T: (810) 220-3300  
T: (231) 775-8368

F: (517) 699-0388  
F: (810) 220-3311  
F: (231) 775-8584

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB01(7)111214	Chain of Custody:	132457
Client Project Name:	Highland Park Model T Site	Sample No:	1	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	09:30
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65302-001		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	12	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65302-001		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	5700	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	6600	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65302-001		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene	U	µg/kg	330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
2. Acenaphthylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
3. Anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
4. Benzo(a)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
5. Benzo(a)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
6. Benzo(b)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
7. Benzo(ghi)perylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
8. Benzo(k)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
9. Chrysene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
10. Dibenzo(a,h)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
11. Fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
12. Fluorene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
13. Indeno(1,2,3-cd)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
14. 2-Methylnaphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
15. Naphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
16. Phenanthrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
17. Pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB02(7')111214	Chain of Custody:	132457
Client Project Name:	Highland Park Model T Site	Sample No:	2	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	10:00
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65302-002		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	17	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65302-002		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	4400	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	29000	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65302-002		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene	U	µg/kg	330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
2. Acenaphthylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
3. Anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
4. Benzo(a)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
5. Benzo(a)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
6. Benzo(b)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
7. Benzo(ghi)perylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
8. Benzo(k)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
9. Chrysene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
10. Dibenzo(a,h)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
11. Fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
12. Fluorene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
13. Indeno(1,2,3-cd)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
14. 2-Methylnaphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
15. Naphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
16. Phenanthrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
17. Pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB03(7.5')111214	Chain of Custody:	132457
Client Project Name:	Highland Park Model T Site	Sample No:	3	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	10:20
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65302-003		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	12	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65302-003		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	5800	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	7500	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65302-003		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene	U	µg/kg	330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
2. Acenaphthylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
3. Anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
4. Benzo(a)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
5. Benzo(a)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
6. Benzo(b)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
7. Benzo(ghi)perylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
8. Benzo(k)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
9. Chrysene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
10. Dibenzo(a,h)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
11. Fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
12. Fluorene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
13. Indeno(1,2,3-cd)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
14. 2-Methylnaphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
15. Naphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
16. Phenanthrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
17. Pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB04(7)111214	Chain of Custody:	132457
Client Project Name:	Highland Park Model T Site	Sample No:	4	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:00
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65302-004		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	13	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65302-004		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	10000	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	7400	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65302-004		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene	U	µg/kg	330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
2. Acenaphthylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
3. Anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
4. Benzo(a)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
5. Benzo(a)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
6. Benzo(b)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
7. Benzo(ghi)perylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
8. Benzo(k)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
9. Chrysene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
10. Dibenzo(a,h)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
11. Fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
12. Fluorene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
13. Indeno(1,2,3-cd)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
14. 2-Methylnaphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
15. Naphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
16. Phenanthrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
17. Pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB04(7')111214D	Chain of Custody:	132457
Client Project Name:	Highland Park Model T Site	Sample No:	5	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:01
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65302-005		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	13	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65302-005		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	7900	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	5900	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65302-005		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene	U	µg/kg	330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
2. Acenaphthylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
3. Anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
4. Benzo(a)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
5. Benzo(a)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
6. Benzo(b)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
7. Benzo(ghi)perylene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
8. Benzo(k)fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
9. Chrysene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
10. Dibenzo(a,h)anthracene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
11. Fluoranthene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
12. Fluorene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
13. Indeno(1,2,3-cd)pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
14. 2-Methylnaphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
15. Naphthalene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
16. Phenanthrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA
17. Pyrene	U	µg/kg		330	1.0	11/17/14	PS14K17E	11/17/14	S514K17B	BDA

**Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QA limits

**Exception Summary:**

Accreditation Number(s):

**E-10395 (KS)****T104704518-13-1 (TX)**

**Fibertec**  
environmental  
services

Analytical Laboratory  
1914 Holloway Drive 8660 S. Mackinaw Trail  
Holt, MI 48842 Cadillac, MI 49601  
Phone: 517 699 0345 Phone: 231 775 8368  
Fax: 517 699 0388 Fax: 231 775 8584  
email: lab@fibertec.us

Industrial Hygiene Services, Inc.  
1914 Holloway Drive 11766 E. Grand River  
Holt, MI 48842 Brighton, MI 48116  
Phone: 517 699 0345 Phone: 810 220 3300  
Fax: 517 699 0382 Fax: 810 220 3311  
email: asbestos@fibertec.us

Geoprobe  
11766 E. Grand River  
132457  
Chain of Custody #  
PAGE 1 of 1

Client Name: <b>AKT PEERLESS</b>			PARAMETERS			Turnaround	Matrix Code	Deliverables	
Contact Person: <b>BRETT SHOFF</b>						(24 hour RUSH (surcharge applies)	S Soil	Ground Water	<input type="checkbox"/> Level 2
Project Name/ Number: <b>HIGHLAND PARK MODEL SITE 14534 WOODWARD AVE Highland Park, MI</b>						48 hour RUSH (surcharge applies)	A Air	SW Surface Water	<input type="checkbox"/> Level 3
QUOTE#						72 hour RUSH (surcharge applies)	O Oil	WW Waste Water	<input type="checkbox"/> Level 4
Purchase Order# <b>3010F2 1-20</b>						Standard (5-7 bus. days)	P Wipe	X Other: Specify _____	<input type="checkbox"/> EDD
						<input checked="" type="checkbox"/> Standard (5-7 bus. days)	<input type="checkbox"/> Other: Specify _____	<input type="checkbox"/> FES Drilling Services	
Lab Sample #	2014 Date	Time	Client Sample #	Client Sample Descriptor	# OF CONTAINERS	MATRIX (SEE RIGHT CORNER FOR CODE)			
						# OF CONTAINERS			
						PRESERVED (Y/N)			
						<b>PNAS</b>			
						<b>As, Pb</b>			
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Thursday, November 20, 2014

Fibertec Project Number: 65305  
Project Identification: Highland Park Model T Site 14534 Woodward Ave. Highland Park, MI/  
Submittal Date: 11/13/2014

Mr. Brett Shoaff  
AKT Peerless Environ. Svcs, Inc. - Farm. Hills  
22725 Orchard Lake Road  
Farmington Hills, MI 48336

Dear Mr. Shoaff,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,



Daryl P. Strandbergh  
Laboratory Director

DPS/atd

Enclosures

1914 Holloway Drive  
11766 E. Grand River  
8660 S. Mackinaw Trail

Holt, MI 48842  
Brighton, MI 48116  
Cadillac, MI 49601

T: (517) 699-0345  
T: (810) 220-3300  
T: (231) 775-8368

F: (517) 699-0388  
F: (810) 220-3311  
F: (231) 775-8584

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB05(2')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	1	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:20
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-001		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	4.6	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-001		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	3600	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	3700	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-001		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
2. Acenaphthylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
3. Anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
9. Chrysene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
11. Fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
12. Fluorene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
15. Naphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
16. Phenanthrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
17. Pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB06(2')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	2	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:30
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-002		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	14	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-002		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	1300	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	1900	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-002		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
2. Acenaphthylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
3. Anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
9. Chrysene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
11. Fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
12. Fluorene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
15. Naphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
16. Phenanthrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
17. Pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB06(2')111214MS	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	3	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:30
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-003		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	12	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-003		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	9700	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	21000	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-003		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	5400	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
2. Acenaphthylene (SIM)	5300	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
3. Anthracene (SIM)	5600	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
4. Benzo(a)anthracene (SIM)	5600	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
5. Benzo(a)pyrene (SIM)	5600	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
6. Benzo(b)fluoranthene (SIM)	5700	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
7. Benzo(ghi)perylene (SIM)	5200	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
8. Benzo(k)fluoranthene (SIM)	5500	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
9. Chrysene (SIM)	5900	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
10. Dibenzo(a,h)anthracene (SIM)	5400	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
11. Fluoranthene (SIM)	6600	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
12. Fluorene (SIM)	5600	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	6200	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
14. 2-Methylnaphthalene (SIM)	5500	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
15. Naphthalene (SIM)	5600	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
16. Phenanthrene (SIM)	5700	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
17. Pyrene (SIM)	6000	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB06(2')111214MSD	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	4	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:30
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-004		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	13	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-004		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	9500	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	21000	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-004		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	5800	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
2. Acenaphthylene (SIM)	5700	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
3. Anthracene (SIM)	6100	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
4. Benzo(a)anthracene (SIM)	6200	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
5. Benzo(a)pyrene (SIM)	6200	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
6. Benzo(b)fluoranthene (SIM)	6100	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
7. Benzo(ghi)perylene (SIM)	5700	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
8. Benzo(k)fluoranthene (SIM)	6200	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
9. Chrysene (SIM)	6500	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
10. Dibenzo(a,h)anthracene (SIM)	6000	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
11. Fluoranthene (SIM)	7100	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
12. Fluorene (SIM)	6000	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	6300	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
14. 2-Methylnaphthalene (SIM)	5900	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
15. Naphthalene (SIM)	6000	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
16. Phenanthrene (SIM)	6200	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN
17. Pyrene (SIM)	6600	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19B	GAN

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB07(2')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	5	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:35
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

<b>Dry Weight Determination (ASTM D 2974-87)</b>						<b>Aliquot ID: 65305-005</b>		<b>Matrix: Soil/Solid</b>		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	7.2	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
<b>Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)</b>						<b>Aliquot ID: 65305-005</b>		<b>Matrix: Soil/Solid</b>		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	580	µg/kg		100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	1600	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
<b>Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)</b>						<b>Aliquot ID: 65305-005</b>		<b>Matrix: Soil/Solid</b>		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
2. Acenaphthylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
3. Anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
9. Chrysene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
11. Fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
12. Fluorene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
15. Naphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
16. Phenanthrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
17. Pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB08(2')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	6	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	11:45
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

<b>Dry Weight Determination (ASTM D 2974-87)</b>						<b>Aliquot ID: 65305-006</b>		<b>Matrix: Soil/Solid</b>		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	5.0	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
<b>Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)</b>						<b>Aliquot ID: 65305-006</b>		<b>Matrix: Soil/Solid</b>		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
	1. Arsenic	700	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead		U	µg/kg	1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
<b>Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)</b>						<b>Aliquot ID: 65305-006</b>		<b>Matrix: Soil/Solid</b>		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
	1. Acenaphthene (SIM)	U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
2. Acenaphthylene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
3. Anthracene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
4. Benzo(a)anthracene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
5. Benzo(a)pyrene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
6. Benzo(b)fluoranthene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
7. Benzo(ghi)perylene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
8. Benzo(k)fluoranthene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
9. Chrysene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
10. Dibenzo(a,h)anthracene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
11. Fluoranthene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
12. Fluorene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
14. 2-Methylnaphthalene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
15. Naphthalene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
16. Phenanthrene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN
17. Pyrene (SIM)		U	µg/kg	330	1.0	11/19/14	PS14K19F	11/19/14	S614K19A	GAN

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB09(2')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	7	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	12:00
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-007		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	10	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-007		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	2200	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	2500	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-007		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	U	µg/kg	330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
2. Acenaphthylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
3. Anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
9. Chrysene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
11. Fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
12. Fluorene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
15. Naphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
16. Phenanthrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
17. Pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB10(2.5')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	8	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	12:10
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-008		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	13	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-008		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	2100	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	8700	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-008		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	U	µg/kg	330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
2. Acenaphthylene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
3. Anthracene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
9. Chrysene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
11. Fluoranthene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
12. Fluorene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
15. Naphthalene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
16. Phenanthrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
17. Pyrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB11(2')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	9	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	12:20
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-009		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	13	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-009		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	4500	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	20000	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-009		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	U	µg/kg	330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
2. Acenaphthylene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
3. Anthracene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
9. Chrysene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
11. Fluoranthene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
12. Fluorene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
15. Naphthalene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
16. Phenanthrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA
17. Pyrene (SIM)	U	µg/kg		330	10	11/19/14	PS14K19F	11/19/14	S514K19A	BDA

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB12(2')111214	Chain of Custody:	132458
Client Project Name:	Highland Park Model T Site	Sample No:	10	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	13:20
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-010		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	14	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-010		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	5700	µg/kg	100	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
2. Lead	7200	µg/kg		1000	20	11/19/14	PT14K19B	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-010		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	U	µg/kg	330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
2. Acenaphthylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
3. Anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
9. Chrysene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
11. Fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
12. Fluorene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
15. Naphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
16. Phenanthrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
17. Pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB13(2')111214	Chain of Custody:	132459
Client Project Name:	Highland Park Model T Site	Sample No:	11	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	13:30
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-011		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	16	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-011		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Arsenic	7800	µg/kg	100	20	11/19/14	PT14K19D	11/19/14	T414K19B	JLH
2. Lead	42000	µg/kg		1000	20	11/19/14	PT14K19D	11/19/14	T414K19B	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-011		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
	1. Acenaphthene (SIM)	U	µg/kg	330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
2. Acenaphthylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
3. Anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
4. Benzo(a)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
5. Benzo(a)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
6. Benzo(b)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
9. Chrysene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
11. Fluoranthene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
12. Fluorene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
14. 2-Methylnaphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
15. Naphthalene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
16. Phenanthrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN
17. Pyrene (SIM)	U	µg/kg		330	1.0	11/19/14	PS14K19F	11/20/14	S614K19B	GAN

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Farm. Hills	Sample Description:	HPMT-SB14(2')111214	Chain of Custody:	132459
Client Project Name:	Highland Park Model T Site	Sample No:	12	Collect Date:	11/12/14
Client Project No:	NA	Sample Matrix:	Soil/Solid	Collect Time:	14:00
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.					

Dry Weight Determination (ASTM D 2974-87)						Aliquot ID: 65305-012		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	18	%		0.1	1.0	11/17/14	MC141117	11/18/14	MC141117	BMG
Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 65305-012		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	6800	µg/kg		100	20	11/19/14	PT14K19D	11/19/14	T414K19B	JLH
2. Lead	410000	µg/kg		1000	100	11/19/14	PT14K19D	11/20/14	T414K20A	JLH
Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C)						Aliquot ID: 65305-012		Matrix: Soil/Solid		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
2. Acenaphthylene (SIM)	720	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
3. Anthracene (SIM)	U	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
4. Benzo(a)anthracene (SIM)	430	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
5. Benzo(a)pyrene (SIM)	350	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
6. Benzo(b)fluoranthene (SIM)	670	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
7. Benzo(ghi)perylene (SIM)	U	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
8. Benzo(k)fluoranthene (SIM)	U	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
9. Chrysene (SIM)	440	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
11. Fluoranthene (SIM)	1100	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
12. Fluorene (SIM)	U	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
14. 2-Methylnaphthalene (SIM)	630	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
15. Naphthalene (SIM)	2600	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
16. Phenanthrene (SIM)	1500	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA
17. Pyrene (SIM)	1000	µg/kg		330	20	11/19/14	PS14K19F	11/20/14	S514K19A	BDA

**Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QA limits

**Exception Summary:**

Accreditation Number(s):

**E-10395 (KS)****T104704518-13-1 (TX)**

**Fibertec**  
environmental  
services

Analytical Laboratory  
1914 Holloway Drive 8660 S. Mackinaw Trail  
Holt, MI 48842 Cadillac, MI 49601  
Phone: 517 699 0345 Phone: 231 775 8368  
Fax: 517 699 0368 Fax: 231 775 8364  
email: lab@fibertec.us

Industrial Hygiene Services, Inc.  
1914 Holloway Drive  
Brighton, MI 48116  
Phone: 810 220 3300  
Fax: 810 220 3311  
email: asbestos@fibertec.us

Geoprobe  
11766 E. Grand River  
11766 E. Grand River  
Brighton, MI 48116  
Phone: 810 220 3300  
Fax: 810 220 3311

Chain of Custody #  
**132458**  
PAGE 1 of 2

COC Revision: February, 2013

PARAMETERS				Turnaround	Matrix Code	Deliverables
				(24 hour RUSH (surcharge applies)	S Soil	<input type="checkbox"/> Level 2
				48 hour RUSH (surcharge (applies)	A Air	<input type="checkbox"/> Level 3
				72 hour RUSH (surcharge (applies)	O Oil	<input type="checkbox"/> Level 4
				Standard (5-7 bus. days)	W Waste Water	<input type="checkbox"/>
				Other Specify _____	X Other Specify _____	<input type="checkbox"/> EDD
				Remarks: _____	<input type="checkbox"/> FES Drilling Services	
Lab Sample #	Date	Time	Client Sample #	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)
11/12	11/20	1	HPMT-SB05(2')	S 1	X X	PNAS
11/12	11/30	2	HPMT-SB06(2')	S 1	X X	As, Pb
11/12	11/30	3	HPMT-SB06(2')	S 1	X X	
11/12	11/30	4	HPMT-SB06(2')	S 1	X X	
11/12	11/35	5	HPMT-SB07(2')	S 1	X X	
11/12	11/45	6	HPMT-SB08(2')	S 1	X X	
11/12	12/00	7	HPMT-SB09(2')	S 1	X X	
11/12	12/10	8	HPMT-SB10(2.5')	S 1	X X	
11/12	12/20	9	HPMT-SB11(2')	S 1	X X	
11/12	13/20	10	HPMT-SB12(2')	S 1	X X	

Comments:

Relinquished By: <i>Brett Shaff</i>	Date/ Time	Received By: <i>John Schaefer</i> 11/13/14 10:35
Relinquished By: <i>John Schaefer</i>	Date/ Time	Received By: <i>John Schaefer</i> Received By Laboratory:

LAB USE ONLY:  
Fibertec project number:  
Laboratory tracking:  
Temperature at Receipt: **54.28**

TERMS & CONDITIONS ON BACK

ICE

**Fibertec**  
environmental  
services

Analytical Laboratory  
1914 Holloway Drive 8660 S. Mackinaw Trail  
Holt, MI 48842 Cadillac, MI 49601  
Phone: 517 699 0345 Phone: 231 775 8368  
Fax: 517 699 0388 Fax: 231 775 8584  
email: lab@fibertec.us

Industrial Hygiene Services, Inc.  
1914 Holloway Drive  
Holt, MI 48842  
Phone: 517 699 0345  
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Chain of Custody #  
**132459**  
PAGE 2 of 2

Lab	Sample #	Date	Time	Client Sample Descriptor	PARAMETERS				Turnaround	Matrix Code	Deliverables
					24 hour RUSH (surcharge applies)	48 hour RUSH (surcharge applies)	72 hour RUSH (surcharge applies)	Standard (5-7 bus. days)			
					<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	S Soil	<input type="checkbox"/>	Level 2
					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GW Ground Water	<input type="checkbox"/>	Level 3
					<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SW Surface Water	<input type="checkbox"/>	Level 4
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